

CLAIM LISTING

Claims 1-36 (Cancelled)

37. (Allowed) A controller of a hybrid electric vehicle having an engine (22) and a motor (12) for controlling driving of the engine (22) and the motor (12), comprising

a battery (58) for supplying electric power to the motor (12);

motor-generated driving force transfer means (14) for transferring the driving force generated by the motor (12) to wheels (18);

a power generator (78) driven by the engine (22) to supply generated electric power to the battery (58);

engine-generated driving force transfer means (75) for transferring the driving force generated by the engine (22) to the wheels (28);

means for detecting a vehicle running state (44); and

control means (30) for controlling whether to transfer a driving force generated by an engine (22) to a power generator (78) or wheels (28) in accordance with a vehicle running state, wherein the control means (30) transfers the driving force generated by the engine (22) to wheels (28) when said running state is more than a predetermined value, transfers the driving force generated by the engine (22) to the power generator (78) when said running state is less than a predetermined value.

38. (Allowed) A controller according to claim 37 wherein said control means (30) sets a period for transferring driving forces generated by the engine (22) to wheels (28) when said running state changes from a value less than a predetermined value to a value larger than a predetermined value.

39. (Allowed) A controller according to claim 38 wherein said period is about 45 seconds.

40. (Allowed) A controller according to claim 37 wherein said running state is vehicle speed.

41 (Allowed) A controller according to claim 40 wherein said vehicle speed is about 40 miles per hour.

Claims 42-50 (Cancelled)

51. (Currently amended) A hybrid motor vehicle comprising in combination:

an engine;

an electric motor;

a storage device;

said electric motor powering said hybrid motor at lower speeds;

said engine powering said vehicle at higher speeds; and said engine operatively connected through a charging path for charging said battery at lower speeds [.]

wherein said speed demands do not drop below 40 mph for predetermined time periods of 45 seconds.

Claims 52-61 (Cancelled)